United States Environmental Protection Agency Region 7 300 Minnesota Avenue Kansas City, KS 66101

JUN 2 8 2016 Date:

Subject: Transmittal of Sample Analysis Results for ASR #: 7131

Project ID: EH07RZG

Project Description: Newton County Mine Tailings - Granby subdistrict

From: Margaret E.W. St. Germain, Chief M It Germain Laboratory Technology & Analysis Branch, Environmental Sciences & Technology Division

To: Elizabeth Hagenmaier

SUPR/SPEB

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

OTRZ

40514432 6/28/16

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Project Manager: Elizabeth Hagenmaier

Org: SUPR/SPEB

Phone: 913-551-7939

Project ID: EH07RZG

OAPP Number: 2007197

Project Desc: Newton County Mine Tailings - Granby subdistrict

Location: Granby

State: Missouri

Program: Superfund

Site Name: NEWTON COUNTY MINE TAILINGS - REMAINDER OF

Site ID: 07RZ Site OU: 02

NEWTON COUNTY

GPRA PRC: 303DD2

Purpose: Site Characterization

Subdistrict supplemental sampling.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of

Units: Specific units in which results are

sample for quality control purpose.

reported.

___ = Field Sample

mg/kg = Milligrams per Kilogram

FD = Field Duplicate

% = Percent

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

J = The identification of the analyte is acceptable; the reported value is an estimate.

Sample Information Summary

06/28/2016

Project ID: EH07RZG

Project Desc: Newton County Mine Tailings - Granby subdistrict

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -		Solid	G3, Stream #3		05/25/2016	14:30	05/25/2016	14:30	06/01/2016
2 -		Solid	Behind AS 1 #2		05/25/2016	11:25	05/25/2016	11:25	06/01/2016
3 -		Solid	City Park #3		05/24/2016	15:00	05/24/2016	15:00	06/01/2016
3 -	FD	Solid	City Park #3		05/24/2016	15:00	05/24/2016	15:00	06/01/2016

RLAB Approved Analysis Comments

06/28/2016

Project ID: EH07RZG

Project Desc Newton County Mine Tailings - Granby subdistrict

Analysis Comments About Results For This Analysis

1 Metals in Solids by ICP-AES

Lab: Region 7 ESAT Contract Lab (In-House) **Method:** EPA Region 7 RLAB Method 3122.3F

Basis: Dry

Samples: 1-__ 2-__ 3-__ 3-FD

Comments:

Cadmium (68,63,75-105) was J-coded in sample 1 . Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual concentration for this analyte may be higher than the reported value.

1 Percent Solid

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3142.9H

Basis: N/A

Samples: 1-__ 2-__ 3-__ 3-FD

Comments:

(N/A)

RLAB Approved Sample Analysis Results

06/28/2016

Project ID: EH07RZG

Project Desc: Newton County Mine Tailings - Granby subdistrict

Analysis/ Analyte	Units	1	2	3	3-FD	
1 Metals in Solids by ICP-AES					•	
Cadmium	mg/kg	33.3 J	5.7	15.1	14.8	
Lead	mg/kg	345	718	479	515	
Zinc	mg/kg	5340	7590	3210	3440	
1 Percent Solid		a= 4		05.6	70.0	
Solids, percent	%	87.9	59.6	85.6	78.2	

CHAIN OF CUSTODY RECORD ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print) NAME OF SURVEY OR ACTIVITY DATE OF COLLECTION SHEET														
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CONTENTS OF SHIPMENT														
SAMPLE		ERS	SAMPLED M					OlA	RECEIVING LABORATORY REMARKS OTHER INFORMATION					
NUMBER	CUBITAINER BOTTLE BOTTLE NUMBERS OF CONTAINERS PER SAN			BOTTLE	(2 VIALS EA)	water Soul		edune	sedument dust		(condition of samples upon receipt. other sample numbers, etc.)			
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ICE CHEST	COURIER													
ICE CHEST(S): OTHER SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER)														
PERSONNEL CUSTODY RECORD														
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ASR Number: 7131 Sample Number: 1 QC Code: __ Matrix: Solid Tag ID: 7131-1-__

Project ID: EH07RZG Project Manager: Elizabeth Hagenmaier

Project Desc: Newton County Mine Tailings - Granby subdistrict

City: Granby State: Missouri

Program: Superfund

Site Name: NEWTON COUNTY MINE TAILINGS - REMAINDER OF

Site ID: 07RZ Site OU: 02

NEWTON COUNTY

Location Desc: 63 Stream #3

External Sample Number: 53 Freum # ?

Expected Conc: 800-120 Nor Circle One: Low Medium High)

Date

Time(24 hr)

Latitude: 36.55.95 Sample Collection: Start: 5.2516 14:36

Longitude: 94 '15' 36.28 End: 5/2514 14:30

Laboratory Analyses:

Container Preservative Holding Time Analysis

1 - 8 oz glass 4 Deg C 180 Days 1 Metals in Solids by ICP-AES

0 - 4 Deg C Days 1 Percent Solid

Sample Comments:

(N/A)

ASR Number: 7131 Sample Number: 2 QC Code: __ Matrix: Solid Tag ID: 7131-2-__

Project ID: EH07RZG Project Manager: Elizabeth Hagenmaier

Project Desc: Newton County Mine Tailings - Granby subdistrict

City: Granby State: Missouri

Program: Superfund

Site Name: NEWTON COUNTY MINE TAILINGS - REMAINDER OF Site ID: 07RZ Site OU: 02

NEWTON COUNTY

Location Desc: Behind AS | #2

External Sample Number: Behind AS] # 2

Expected Conc: 400-600 (or Circle One: Low Medium High)

Date

Time(24 hr)

Latitude: 36'54'36.27 Sample Collection: Start: 5.25/16 11:25

Longitude: 94'15'4.89 End: 5/2916 11:25

Laboratory Analyses:

Container Preservative Holding Time Analysis

1 - 8 oz glass 4 Deg C 180 Days 1 Metals in Solids by ICP-AES

0 - 4 Deg C Days 1 Percent Solid

Sample Comments:

(N/A)

ASR Number: 7131 Sample Number: 3 QC Code: __ Matrix: Solid Tag ID: 7131-3-__

Project ID: EH07RZG Project Manager: Elizabeth Hagenmaier

Project Desc: Newton County Mine Tailings - Granby subdistrict

City: Granby State: Missouri

Program: Superfund

Site Name: NEWTON COUNTY MINE TAILINGS - REMAINDER OF Site ID: 07RZ Site OU: 02

NEWTON COUNTY

Location Desc: Why Park # 3

External Sample Number: ピザ3

Expected Conc: 200 (or Circle One: Low Medium High)

Date

Time(24 hr)

Latitude: 36.54.59.25 Sample Collection: Start: 6.24.16 15: 8.59.25

Longitude: 94 15 25.04 End: 5/24 16 15:00

Laboratory Analyses:

Container Preservative Holding Time Analysis

1 - 8 oz glass 4 Deg C 180 Days 1 Metals in Solids by ICP-AES

0 - 4 Deg C Days 1 Percent Solid

Sample Comments:

(N/A)

ASR Number: 7131 Sample Number: 4-3 QC Code: D Matrix: Solid Tag ID: 7131-4-__

Project ID: EH07RZG Project Manager: Elizabeth Hagenmaier

Project Desc: Newton County Mine Tailings - Granby subdistrict

City: Granby State: Missouri

Program: Superfund

Site Name: NEWTON COUNTY MINE TAILINGS - REMAINDER OF Site ID: 07RZ Site OU: 02

NEWTON COUNTY

Location Desc: LP CAY PORK #3

External Sample Number:

Expected Conc: 200 - (400) (or Circle One: Low Medium High)

Date

Time(24 hr)

Latitude: 36' 54' 59.75 Sample Collection: Start: 5/2416 15:60

Longitude: 94'15'25.04 End: 5/24/16 [5:00]

Laboratory Analyses:

Container Preservative Holding Time Analysis

1 - 8 oz glass 4 Deg C 180 Days 1 Metals in Solids by ICP-AES

0 - 4 Deg C Days 1 Percent Solid

Sample Comments:

(N/A)